A. Mace

All communications should be addressed to "LIGHT-HOUSE ENGINEER, THIRD DISTRICT."

U. S. GENERAL LIGHT-HOUSE DEPOT,

OFFICE OF U. S. LIGHT-HOUSE ENGINEER, THIRD DISTRICT.

Enclosures.

Tompkinsville, N. Y., October 30 1890

Point Loma Cal.

Lens for.

The Light House Board

Washington D.C.

Sirs.

Referring to Board's letter of 27 October '90. I have the honor to state that the lens purchased from appropriation for Point Loma, was bought to replace a lens already sent there and I expected that this lens would be sent to some other station Still as it was possible that it might be used at Point Loma I sent a tracing of the lens to the Board on August 15. 89 with the request that it be sent to 12 Engineer for his information.

As a guide to the maker of the lens I sent him a plan of the 3rd order lantern in use at Anclote Keys this being the latest type of 3rd order lantern made. and is I believe a duplicate of the lantern at Sanibel Island.

Mr. Henry Lepante stated in a letter to me that he had conformed to the lantern for Anclote Keys in making the lens for Point Loma.

From the drawings of Point Loma Tower I should judge that it would be possible to make the following alterations in the lantern which would allow the use of this lens Referring to tracing sent to the Board on August 15. 89. it will be seen that the diameter of the apparatus 3 inches below the gun metal frame hooding the glass prisms is scant 47 inches. so it will go through the 4 foot

opening in lantern floor - it will only be necessary to raise the entire apparatus three inches - The only other remedy would be to cut the opening larger.

To support the apparatus where it projects over the stairs in the Cylinder, I would recommend an iron post - the lower end resting on one of the Stair treads.

Of course the opening left being only 13 inches wide would be inconvenient, Still it is large enough to squeeze through.

As a duplicate of this apparatus was ordered on July 31. 1890 for Chicago Breakwater Light I would respectfully suggest that a blue print of the apparatus be sent to the 9th Engineer and his attention called to the trouble experienced at Point Loma -

I have a third order flashing lens on hand which I will set up and measure carefully

perhaps it will answer for Point Loma in which case the Point Loma lens might be used at the Chicago Breakwater. The clippings sent with Board's letter are returned as requested.

Respectfully Yours

W. F. Craig

Major of Engineers U.S.A.

Engineer 3rd L. H. District